| inae   | :X O1 | Claim | S             |
|--------|-------|-------|---------------|
| Mannen |       |       | <b>T</b> AIII |
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Application/Control No.

10/660,463

Examiner

Jinhee J. Lee

Applicant(s)/Patent under Reexamination

MAATTA ET AL.

2831

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N interference

Appeal 0 Objected

|        |          | _        |           |          |           |          |          |                |            |          |      |          |          |          |              |         |                         |          |                    |        | _     |               |            |                      |                    |         |          |            |           |          |
|--------|----------|----------|-----------|----------|-----------|----------|----------|----------------|------------|----------|------|----------|----------|----------|--------------|---------|-------------------------|----------|--------------------|--------|-------|---------------|------------|----------------------|--------------------|---------|----------|------------|-----------|----------|
| Cla    | dm       | Date     |           |          |           |          |          |                | Claim Date |          |      |          |          |          |              |         |                         |          | CI                 | Date   |       |               |            |                      |                    |         |          |            |           |          |
| Final  | Original | 347705   | 8/23/0\$  |          |           |          |          |                |            |          |      | Fine     | Ortginal |          |              |         |                         |          |                    |        |       | Final         | Original   |                      |                    |         |          |            |           |          |
|        | 0        | v        | V         | $\Box$   |           |          |          | Г              | ┢          | Г        |      |          | 51       | Ħ        |              | +       | 1                       | T        | $\vdash$           | 1      | 1     |               | 101        | H                    | +                  | ╅       | +        | ✝          | Н         | $\dashv$ |
|        | 1        | T        |           |          |           |          |          |                |            |          |      |          | 52       |          |              |         | 1                       |          |                    |        |       |               | 102        | П                    | _                  | T       | T        | T          | П         |          |
|        | 3        | П        | >         |          |           |          |          |                |            |          |      |          | 8        |          | $\Box$       | $\perp$ | I                       |          | Ш                  | I      |       |               | 103        |                      | $\Box$             | $\Box$  |          |            |           |          |
|        | ٧        | Щ        | П         | $\Box$   |           | Ш        | _        |                | ╙          | ᆫ        |      |          | 54       | Ш        | $\perp$      | 4       | +                       | 1_       | Ы.                 | ╀      |       | <u> </u>      | 104        | Ц                    | 1                  | $\perp$ | Ţ        |            |           | _        |
|        | 5        |          | ш         | 4        | _         | Н        | Н        | Н              | <u> </u>   | <b>├</b> |      |          | 55       | Н        | +            | +       | +                       | ┿-       | ├-┼-               | +-     | ₩     | _             | 105        | $\dashv$             | 4                  | +       | ╀        | ļ          | H         | -        |
|        | 7        | -        | Щ         | -        | $\dashv$  | Н        | Н        | H              | <b>!</b> — | ⊢        |      |          | 56<br>57 | Н        | +            | +       | +-                      | ╀        | Н                  | ╄      |       |               | 106        | $\dashv$             | 4                  | +       | +        | ├          | Н         | -        |
| -      | 8        | Н        | Н         | -        |           | Н        | Н        | Н              | ⊢          | ┢        |      |          | 58       | Н        | $\dashv$     | ┿       | ┿                       | ╁        | +                  | ┿      | ╢     | -             | 108        | Н                    | +                  | +       | ┿        | ╁          | Н         | +        |
| -      | 9        | Н        | +         | $\dashv$ |           | -        | Н        | Н              | ⊢          | H        |      |          | 59       | Н        | $\dashv$     | +       | +                       | ╁        | $\vdash$           | ┿      | ı     |               | 109        | Н                    | ┿                  | +       | ┿        | ╁          | Н         | +        |
|        | 10       | Н        | *         | $\dashv$ | Ė         | $\vdash$ | Н        |                | Н          | t        |      | _        | 60       | М        | +            | 十       | +                       | T        | $\vdash$           | ╈      |       | _             | 110        | H                    | 十                  | +       | †-       | ╅          | Н         | -        |
| $\neg$ | 10       | П        | ٧         |          | $\exists$ | П        | П        |                | Г          | Г        |      |          | 61       | П        | $\top$       | ┰       | 1                       | 1        |                    | 1      | 1     |               | 111        | П                    | 十                  | 1       | 1        | T          | П         | +        |
|        | ¥        |          |           |          |           |          |          |                |            |          |      |          | 62       |          |              | I       | Ι                       |          |                    | 1      | ]     |               | 112        |                      | 丁                  | I       | Τ        |            |           |          |
|        | 13       | $\Box$   | *         |          |           |          |          |                |            |          |      |          | 63       |          |              | $\perp$ | $\perp$                 |          |                    | Γ      |       |               | 113        |                      | $oxed{\mathbb{T}}$ | I       | Ι        |            |           | $\Box$   |
|        | 14       |          | $\exists$ | Ц        |           |          |          |                |            | L        |      |          | 64       | $\Box$   | $\Box$       | Ţ       | $\perp$                 |          |                    | L      |       |               | 114        | $\Box$               | $oldsymbol{\perp}$ | I       | $\perp$  |            | $\square$ | $\Box$   |
|        | 15       | Н        | Щ         | $\Box$   | 4         | Щ        | $\vdash$ | $\vdash$       | L          | -        |      | -        | 65       | Ш        | 4            | 4       | +                       |          | $\vdash$           | +      |       | _             | 115        | Ц                    | 4                  | 1       | $\bot$   |            | П         | _        |
|        | Þ        | Н        | Ш         | $\dashv$ | 4         | Н        | Н        | -              | -          | ⊢        |      | <b></b>  | 66       | ┥        | +            | +       | +                       | $\vdash$ | $\vdash$           | +-     |       | <u> </u>      | 116        | ${oldsymbol{arphi}}$ | +                  | +       | +        | ⊢          | ⊢∤        | -        |
|        | 17       | Н        | Ш         | $\dashv$ | -1        | $\vdash$ | Н        | $\vdash$       | ┢          | <b>├</b> |      |          | 67<br>68 | Н        | $\dashv$     | +       | +                       | ╌        | $\vdash \vdash$    | +-     | ł     |               | 117        | $\vdash$             | +                  | - -     | ╂        | -          | ⊢∔        | +        |
| _      | 19       | Н.       | Н         | $\dashv$ | ⊣         | Н        | Н        | $\vdash$       | ⊢          | ╁        |      |          | 69       | Н        | +            | ┿       | ╁                       |          | $\vdash$           | ┿      |       | $\vdash$      | 118<br>119 | Н                    | +                  | ┿       | ╀        | ┢          | Н         | +        |
| -      |          | Y        | Н         | $\dashv$ | ᅱ         | Н        | Н        | Н              | ┢          | ⊢        |      | $\vdash$ | 70       | Н        | +            | ╫       | ╫                       | +        | $\vdash$           | ╫      |       |               | 120        | $\vdash$             | +                  | ┿       | ╁╌       | ╁╌         | Н         |          |
|        | 21       | •        | Н         | $\dashv$ | $\dashv$  | Н        | Н        | Н              | ⊢          | 1-       |      |          | 71       | H        | +            | +       | 十                       | Н        | $\vdash$           | ╈      |       | _             | 121        | H                    | ┿                  | ┿       | ╁        | ┢          | Н         | $\dashv$ |
|        | 02       | Ť        | Н         |          |           |          |          |                | ┪          | Г        |      |          | 72       | П        | $\sqcap$     | 十       | 1                       |          |                    | ╅      | ۱     | _             | 122        | H                    | $\top$             | +       | +        | Н          | Н         | $\dashv$ |
|        | 23       |          | H         | $\neg$   |           |          |          | П              | Н          |          |      |          | 73       | Ħ        | $\top$       | 1       | †                       | T        | 1                  | †      | 1     |               | 123        | H                    | +                  | +       | 1        | t          | Н         | _        |
|        | 24       |          |           |          |           |          |          |                |            | Г        |      |          | 74       | П        |              | ╅       | 1                       | П        | $\Box$             | Т      |       |               | 124        | П                    | 7                  | 1       | T        | ✝          | П         | $\neg$   |
|        | 25       |          | П         |          |           |          |          |                |            |          |      |          | 75       |          |              | $\perp$ | T                       |          |                    | Т      |       |               | 126        |                      | T                  |         | T        |            |           |          |
|        | 26       |          |           |          |           |          |          | П              |            |          |      |          | 76       | П        |              | I       | I                       |          |                    | L      |       |               | 126        |                      | $\perp$            | I       | $\perp$  |            |           | $\Box$   |
|        | 77       |          | Ш         |          |           |          |          |                |            | L        |      |          | 77       | Ц        |              | 1       | L                       |          | $\Box$             | L      |       |               | 127        |                      | $\perp$            | 1       | $\Gamma$ |            | П         | $\perp$  |
|        | 28       |          | Ш         |          | 4         | ш        | Н        | L              | ╙          | <b>!</b> |      |          | 78       | Н        | 4            | 4       | +                       | Щ        | $\vdash$           | 4      |       |               | 128        | $\sqcup$             | 4                  | 4       | ↓        | L          | Ц         | 4        |
|        | 29       | Н        | М         | -        | 4         | -        | щ        | Н              | ⊢          | ┞-       |      |          | 79       | Н        | -            | +       | 4-                      | L        | -                  | +      |       |               | 129        | -                    | -                  | +       | ╄        | ↓_         | Н         | 4        |
|        | 30<br>31 | -        | V         | $\dashv$ |           |          | Н        | Н              | ⊢          | <b> </b> |      |          | 80       | Н        | -            | ┿       | ╀                       | Н        | +                  | ╀      |       | -             | 130        | ⊢                    | +                  | +       | +        | ₽          | Н         |          |
|        | 32       | Н        | M         | $\dashv$ | -         | Н        | Н        | Н              | H          | ⊢        |      |          | 81<br>82 | $\vdash$ | +            | +       | +                       | $\vdash$ | $\vdash$           | +      | ł     |               | 131        | ⊢┼                   | +                  | +       | +-       | -          | ┥         | +        |
| -      | 33       | $\dashv$ | $\vdash$  | -        | ┥         | $\dashv$ | Н        | Н              | Н          | ┪        |      | _        | 83       | Н        | $\dashv$     | +       | +-                      | $\vdash$ | -                  | ┿      | liii  | Н             | 133        | $\vdash \vdash$      | +                  | +-      | ╁        | ┥          | $\vdash$  | +        |
|        | 34       | $\dashv$ | $\dashv$  | ┪        | ┪         | $\dashv$ | Н        | Н              |            | Н        |      | -        | 84       | Н        | $\dashv$     | +       | ╈                       | Н        | +                  | +      | 1     |               | 134        | $\vdash$             | +                  | ╅       | 1-       | 1-         | ┢═┪       | +        |
|        | 35       | $\dashv$ | П         | 寸        | ┪         |          | П        |                |            | Г        |      |          | 85       | П        | 1            | 十       | 十                       | П        | $\vdash$           | $\top$ | 1111  |               | 135        |                      | +                  | +       | T        | Т          | H         | +        |
|        | 36       |          |           | ⇉        |           |          |          |                |            |          |      |          | 86       |          |              | 1       | I                       |          |                    | I      |       |               | 136        |                      | $\top$             | 1       | 1        | Г          | П         | 十        |
|        | 37       |          |           |          |           |          |          |                |            |          |      |          | 87       |          |              |         | Ι                       |          |                    | Ι      |       |               | 137        |                      |                    | T       | Ι        |            | 口         | 丁        |
|        | 38       |          |           | $\Box$   |           |          |          |                |            |          |      |          | 88       |          | I            | Ι       | $oldsymbol{\mathbb{L}}$ |          |                    | I      |       |               | 138        |                      | $\perp$            | Ι       | Γ        | $\Box$     |           | $\Box$   |
| ]      | 39       | $\Box$   |           | ユ        |           |          |          | Ш              | Щ          |          |      |          | 89       | Ц        | ightharpoons | $\bot$  | Ţ                       |          | $\perp$            | 丰      |       |               | 139        | П                    | $\perp$            | T       | L        |            | П         | I        |
|        | 40       | Ц        |           | _        | _         | _        | Ш        | Ш              | L          | _        |      |          | 90       | Ш        | 4            | 4       | 4                       | Ш        | $oldsymbol{\perp}$ | $\bot$ | ı     |               | 140        | Ц                    | 4                  | $\bot$  | $\perp$  | <b> </b> _ | Ш         | 4        |
|        | 41       | $\dashv$ | Н         | 4        | 4         |          | Н        | Н              | L          | ┡        |      |          | 91       | Н        | 4            | 4       | 4                       | $\vdash$ | 4                  | +      |       | <u> </u>      | 141        | $\vdash$             | 4                  | 4       | +        | -          | H         | 4,       |
|        | 42       | -        | Н         | -        | 4         | $\dashv$ | $\vdash$ | Н              | H          | ├-       |      |          | 92       | Н        | -            | -       | ╀                       | $\vdash$ | +                  | +      |       |               | 142        | $\vdash$             | +                  | +       | ╀        | ⊢          | ⊢∔        | 4        |
|        | 43       | $\dashv$ | $\dashv$  | ᆛ        | -         | -        | Н        | Н              | $\vdash$   | -        |      |          | ଅଷ       | Н        | +            |         | ╁                       | -        | +                  | +      |       | $\vdash$      | 143        | $\vdash \vdash$      | +                  | +       | ╀        | $\vdash$   | ⊦⊣        | +        |
| -      | 45       | $\dashv$ | Н         | +        | ┥         | $\dashv$ | Н        | Н              | $\vdash$   | -        |      |          | 95       | Н        | +            | ┿       | ╈                       | Н        | $\vdash$           | ╅      | ı     | $\vdash$      | 145        | $\dashv$             | +                  | ╁       | ╁╴       | $\vdash$   | ⊢┤        | +        |
| -      | 46       |          | Н         | +        | ┪         | $\dashv$ | Н        | Н              | -          | Н        |      |          | 96       | Н        | +            | +-      | +                       | Н        | +                  | +      | H     | Н             | 146        | $\vdash$             | +                  | ╁       | ╁        | ┢          | H         | ╅        |
| -1     | 47       | $\dashv$ | $\dashv$  | $\dashv$ | -1        | $\dashv$ | $\vdash$ | Н              | Н          | Н        |      |          | 97       | H        | +            | +       | +                       | Н        | $\vdash$           | ╅      | Ш     | H             | 147        | -                    | +                  | +       | ╁╴       | 1          | ┥         | +        |
| $\neg$ | 48       |          | $\dashv$  | 7        | ┪         | $\neg$   | Н        | H              | Н          | Н        |      |          | 98       | H        | $\dashv$     | +       | +                       | H        | $\vdash$           | 1      | Ш     | $\vdash$      | 148        | $\vdash$             | +                  | ✝       | ✝        | 1          | H         | 十        |
|        | 49       |          |           | 7        | _         |          |          | Н              | П          | Г        |      |          | 99       | Н        | ┪            | +       | T                       | П        | $\vdash$           | ╈      | ı     |               | 149        | $\dashv$             | 十                  | 十       | ✝        |            | Н         | +        |
|        | 50       | -        | _         | -        | -         | _        | $\vdash$ | $\blacksquare$ | _          | ,        | #EIF |          | 100      | -        | -            | -       | <del>-</del>            | •        |                    | -      | THE P | $\overline{}$ | 150        | -                    | -+-                | -+-     | +        | •          | -         | -+-      |